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**From:** Bradley.Mitchell@epa.ohio.gov [Bradley.Mitchell@epa.ohio.gov]  
**Sent:** 7/31/2017 6:12:05 PM  
**To:** Pena-Molina, Ana [pena-molina.ana@epa.gov]; Jeffrey.Mayhugh@epa.ohio.gov; Erik.Hagen@epa.ohio.gov  
**CC:** Blough, James [Blough.James@epa.gov]; Ramanauskas, Peter [ramanauskas.peter@epa.gov]; Lee, Jae [lee.jae@epa.gov]; donald.vogel@epa.ohio.gov; Shuster, Kenneth [Shuster.Kenneth@epa.gov]; Kuziomko, Joseph [kuziomko.joseph@epa.gov]; Kohler, Amanda [Kohler.Amanda@epa.gov]  
**Subject:** RE: ORCR Summer Interns Project Regarding OB/OD Site-Ohio

Ana, here are answers to your questions. Hopefully this helps. Let me know if you have any questions. Regards.

Brad

1. Did these sites complete clean closure or are they still in the process of seeking to clean close? Completed 11/8/95
2. Did the state officially certify/approve the unit(s) Clean Closed (CC)? Yes
3. What was the volume of waste disposed, frequency (e.g., daily, weekly, monthly, periodically), and years of operation? ~150 gallons of oil mixed w/ hazardous waste solvents burned one time in 1991
4. Was it OB or OD or both? Open Burning
5. What sampling procedures were used to identify the extent of the contamination, including kick-out and fallout (e.g., geophysical techniques used to identify buried munitions and fragments; trenching; grid, spokes, meandering way, visual, or random sampling of soil/for kick-out; depth; until no more found; and ground water monitoring)? Soil samples for 9 organics were taken until non-detect values were obtained. Ground water monitoring was not performed.
6. Were components of the unit removed (e.g., any platforms, pans, pads, and liners)? N/A
7. What clean-up procedures and techniques were used to clean up the contaminants (e.g., excavation, soil sifting)? Stained soils were removed & placed in four 55-gallon drums. Further excavation was not necessary b/c soils not above detection limits
8. What data was recorded and metrics used to evaluate the extent and levels of contamination? Samples were taken & submitted for analysis
9. What criteria was used to certify clean closure (e.g., EPA action levels)? MDLs
10. What was the total cost to achieve Clean Closed (CC) status? That information is not in the closure plan or certification. The closure cost estimate projected \$22,070, which included a 20% contingency allowance.

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**From:** Pena-Molina, Ana [mailto:pena-molina.ana@epa.gov]  
**Sent:** Monday, July 17, 2017 4:25 PM  
**To:** Mitchell, Bradley <Bradley.Mitchell@epa.ohio.gov>; jeff.mayhugh@epa.gov; Hagen, Erik <Erik.Hagen@epa.ohio.gov>  
**Cc:** Blough, James <Blough.James@epa.gov>; Ramanauskas, Peter <ramanauskas.peter@epa.gov>; Lee, Jae <lee.jae@epa.gov>; Shuster, Kenneth <Shuster.Kenneth@epa.gov>; Kuziomko, Joseph <kuziomko.joseph@epa.gov>; Kohler, Amanda <Kohler.Amanda@epa.gov>  
**Subject:** ORCR Summer Interns Project Regarding OB/OD Site-Ohio

I am writing to seek information on the closure status of the Open Burn/Open Detonation (OB/OD) units listed below to assist ORCR in a new project to assess closure of OB/OD units. With this information, EPA will be able to identify, evaluate, and document procedures, techniques, and criteria to assess, clean up, and close OB/OD units/sites in a standardized manner.

EPA has been documenting soil and ground water contamination from OB/OD units and the costs to clean them up. Given the inordinate extent of contamination and costs of clean-up that have been reported, we are now seeking to learn more about the monitoring, clean-up procedures, successes, and costs of these efforts. There is currently no national guidance on procedures to assess, monitor, and clean up OB/OD sites, nor metrics to achieve clean closure of OB/OD units. We are requesting information on the clean closure (CC) of OB/OD sites to assist us.

Please first verify the following codes for your appropriate facility in Ohio.

#### Ohio

FACILITY_ID	FACILITY_NAME	UNIT_NAME	UNITs	UNIT_DETAIL_SEQ	legal status	operating status	EFFECTIVE_DATE
OHD987020724	VILLAGE OF LOUDONVILLE MAINTENANCE DEPT	OPEN BURN AREA	1	2	IS	CC	19951011

#### Questions:

We have a number of questions we hope you can answer regarding your clean closed/closing sites. The operating status of the facilities will determine which sets of questions are to be answered. We understand that some of this data may be difficult to find but we would really appreciate if you could dig it up for us as it will help us move forward with this project and eventually help EPA update OB/OD closing procedures.

#### Clean Closed (CC) Facilities' questions:

1. Did these sites complete clean closure or are they still in the process of seeking to clean close?
2. Did the state officially certify/approve the unit(s) Clean Closed (CC)?
3. What was the volume of waste disposed, frequency (e.g., daily, weekly, monthly, periodically), and years of operation?
4. Was it OB or OD or both?
5. What sampling procedures were used to identify the extent of the contamination, including kick-out and fallout (e.g., geophysical techniques used to identify buried munitions and fragments; trenching; grid, spokes, meandering way, visual, or random sampling of soil/for kick-out; depth; until no more found; and ground water monitoring)?
6. Were components of the unit removed (e.g., any platforms, pans, pads, and liners)?
7. What clean-up procedures and techniques were used to clean up the contaminants (e.g., excavation, soil sifting)?
8. What data was recorded and metrics used to evaluate the extent and levels of contamination?
9. What criteria was used to certify clean closure (e.g., EPA action levels)?
10. What was the total cost to achieve Clean Closed (CC) status?

We plan to have a contractor gather this information on a select number of sites from the states. The purpose of this current effort is to gather information on the status of cleanup at these sites to help us identify which sites have the best information for our contractor to follow up with. Thus, for this effort, we seek answers to questions 1-4 and the last question in each set, and for the remaining questions we seek whether or not good information exists to answer these questions. We hope to receive this information by **July 31<sup>st</sup>**. Thank you for taking time to assist us with this project. If you have any questions please feel free to reach out to us. Any information that you may be able to provide will be helpful in our project.

Sincerely,

Ana Pena-Molina  
703-308-8753

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